

Abstract

The present invention is an apparatus designed to effectuate restoration of normal aortic valvular function where there is aortic valvular regurgitation either primary or secondary to diseases of the aorta such as aortic aneurysm, aortic dissection, rheumatic aortic disease annuloaortic ectasia and etc. is present.

The present invention provides an apparatus for repairing aortic annulus composed of (1) a band type inner stabilizer (sometimes ring type inner stabilizer) which is implanted in the true aortic lumen to fix the aortic annular diameter and (2) an outer felt stabilizer which is implanted on the outside surface of aorta to support the inner stabilizer. Furthermore, the present invention provides an apparatus for restoring the sinotubular junction in the ascending aorta which is composed of (1) a ring type inner stabilizer which is implanted in the sinotubular junction in the ascending aorta and (2) an outer felt stabilizer which is implanted on the outside surface of the sinotubular junction to support the inner stabilizer.